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INFOR	MATION	DISCL	OSURE	Filing Date	07/09/2003	
STATEMENT BY APPLICANT			LICANT	First Named Inventor	Chol et al.	
				Group Art Unit	1763	
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Application Number	10/616,294					
Filing Date	07/09/2003					
First Named Inventor	Choi et al.					
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	TT	U.S. Patent Oc	cument	<u> </u>	Date of Publication of	Pages, Columns, Lines,
Examiner Initials*	Cite No. ¹	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
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				Application Number	10/616,294	
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STA	TEMENT BY	/ AP	PLICANT	First Named Inventor	Choi et al.	
				Group Art Unit	1763	
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	<u> </u>			FOREIGN	PATENT DOCUMENTS			
Examiner Initials*	Cite No.	Office ³	Foreign Patent Docum	ent Kind Code [®] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7
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				Application Number	10/616,294
INF	ORMATION	I DISC	CLOSURE	Filing Date	07/09/2003
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				Group Art Unit	1763
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Exam Initial:		Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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Examiner Name

Attorney Docket Number

OTHER PRIOR	R ART - N	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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				Group Art Unit	1722		
Sheet	Sheet 1 of		2	Examiner Name	Rao, G Nagesh		
		L		Attorney Docket Number	P92-34-03		

U.S. Patent Docum					Date of Publication of	Pages, Columns, Lines,	
innis.	Cite No.'	Number (If known)		Name of Patentine or Applicant of Cited Document	Cited Document MIN-CO-YYYY	Where Relevant Packages or Relevant Figures Appear	
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socument.* And or occument by the appropriate symbols as indicated on the colument under ward standard 51.16 if possible. *Applicant 6 to place a check mark here if English language Translation is attached.

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Sheet	2	of	2	Baminer Name	Rao, G Nagesh	
		L		Attorney Docket Number	P92-34-03	

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Cite, No.	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(publisher, city and/or country where published.							
D15	PARK ET AL., Aligning Liquid Crystals Using Replicated Nanopatterns, PSI Scientific Report 2002, Vol VII, p. 85 3/1/2003							
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Substitute for form 1449A/PTO Complete if Known **APPLICATION NUMBER** 10/616,294 INFORMATION DISCLOSURE FILING DATE 07/09/2003 STATEMENT BY APPLICANT FIRST NAMED Choi et al. **INVENTOR** 1722 **Group Art Unit** (use as many sheets as necessary) Nguyen, Thukhanh T. **Examiner Name** Sheet of 8 **Attorney Docket Number** P92-34-03

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		C10	2004/0021254	A1	Sreenivasan et al.	2/5/2004	•				
		C11	2004/0021866	A1 '	Watts et al.	2/5/2004					
		C12	2004/0022888	A1	Sreenivasan et al.	2/5/2004					
		C13	2004/0112861	A1 .	Choi et al.	6/17/2004					
		C14	2003/0092261	A1	Kondo et al.	5/15/2003					
		C15	2003/0179354	A1	Araki et al.	9/25/2003					
,	7	C16	2002/0177319	A1	Chou	11/28/2002					
1		C17	2002/0150398	A1	Choi et al.	10/17/2002					
		C18	6,713,238	B1	Chou et al.	3/30/2004					

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Signature		Considered	((1/95

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INIE	ODMATIO	N DIGGL	20125	APPLICATION NUMBER	10/616,294			
	ORMATIO			FILING DATE	07/09/2003			
317	TEMENT	DT APPL	ICAN I	FIRST NAMED INVENTOR	Choi et al.			
(u	se as many shee	ets as necessa.	(ry)	Group Art Unit	1722			
Sheet	7	of	8	Examiner Name	Nguyen, Thukhanh T.			
				Attorney Docket Number	P92-34-03			

U.S. PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	U.S. Patent Do	Kind Code ² . (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
PIK.	C19	2004/0008334	A1	Sreenivasan et al.	1/15/2004					
	C20	2004/0009673	A1	Sreenivasan et al.	1/15/2004					
	C21	2004/0124566	A1	Sreenivasan et al.	7/1/2004					
	C22	2004/0089979	A1	Rubin	5/13/2004					
	C23	2004/0086793	A1	Sreenivasan et al.	5/6/2004					
	C24	2004/0053146	A1	Sreenivasan et al.	3/18/2004					
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	C27	6,489,068	B1	Куе	12/3/2002					
i	C28	6,646,662	B1	Nebashi et al.	11/11/2003					
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A	C36	6,518,189	B1	Chou	2/11/2003					

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Substitute for	or form 1449A	VPTO		Comple	Complete if Known			
INITA		N DISCL	OCUDE	APPLICATION NUMBER	10/616,294			
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SIA	TEMENT	DI APPL	LICANI	FIRST NAMED INVENTOR	Choi et al.			
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Sheet	3 of		<u></u>	Examiner Name	Nguyen, Thukhanh T.			
			Attorney Docket Number	P92-34-03				

				U.S. PATENT DOCUMEN	TS	
Examiner Initials*	Cite No.1	U.S. Patent Do Number	cument Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
C iM	7 C37	2002/0132482	A1	Chou	9/19/2002	
6 W	C38	2002/0167117	A1	Chou	11/14/2002	
	C39	6,482,742	B1	Chou	11/19/2002	·
	C40	2003/0081193		White et al.	5/1/2003	
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	C42	2004/0036201	A1	Chou et al.	2/26/2004	
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	C44	6,828,244	B2	Chou	12/7/2004	
	C45	6,809,356	B2	Chou	10/26/2004	
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	C49	2004/0156108	A1_	Chou et al.	8/12/2004	
	C50	2004/0137734	A1	Chou et al.	7/15/2004	
	C51	2004/0131718	A1	Chou et al.	7/8/2004	· · · · · · · · · · · · · · · · · · ·
	C52	2004/0118809	A1	Chou et al.	6/24/2004	
$\longrightarrow \!$	C53	2004/0046288	A1	Chou	3/11/2004	
<u> </u>	C54	2003/0080472	A1	Chou	5/1/2003	

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Substitute for form 1449A/PTO Complete if Known APPLICATION NUMBER 10/616,294 INFORMATION DISCLOSURE FILING DATE 07/09/2003 STATEMENT BY APPLICANT **FIRST NAMED** Choi et al. **INVENTOR** 1722 **Group Art Unit** (use as many sheets as necessary) **Examiner Name** Nguyen, Thukhanh T. Sheet of 8 P92-34-03 Attorney Docket Number

				U.S. PATENT DOCUMEN	TS	
Examiner Initials*	Cite No.	U.S. Patent Do	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	١					
SM	C55	2003/0034329	A1	Chou	2/20/2003	
1	C56	2002/0042027	A1	Chou et al.	4/11/2002	
	C57	6,636,311	B1	Ina et al.	10/21/2003	
	C58	6,383,888	B1	Stirton	5/7/2002	
	C59	2004/0033515	A1	Cao et al.	2/19/2004	
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	C62	6,630,410	B2	Trapp et al.	10/7/2003	•
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	C72	4,256,829		Daniel	3/17/1981	

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Signature	16/2	Considered	9/1/03

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* * * * * * * * * * * * * * * * * * * *	ORMATIOI ATEMENT I			FILING DATE	07/09/2003	
317	41 EINIEIN I	DIAPPL	ICANI	FIRST NAMED INVENTOR	Choi et al.	
(u	se as many shee	ets as necessa	ry)	Group Art Unit	1722	
Sheet			Examiner Name	Nguyen, Thukhanh T.		
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	T	U.S. Patent Oc	ocument		Date of Publication of	Pages, Columns, Lines,
Examiner Initials*	Cite No.'	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MIM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
211	C73	2004/0110856	A1	Young et al.	6/10/2004	
GNI	C74		^'' ·	Harakal et al.	7/2/1991	<u> </u>
	+	5,028,366	ļ	 		
	C75	5,601,641	<u> </u>	Stephens	2/11/1997	
]	C76	5,849,209		Kindt-Larsen et al.	12/15/1998	
4	C77	5,849,222	1	Jen et al.	12/15/1998	
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	ATEMENT I			FILING DATE	07/09/2003		
517	AI CIVICIVI I	OI AFFL	.IOAN1	FIRST NAMED INVENTOR	Choi et al.		
				Group Art Unit	1722		
(L	ise as many shee	ts as necessa	ry)	Examiner Name	Nguyen, Thukhanh T.		
Sheet	6	of	8	Attorney Docket Number	P92-34-03		

Foreign Patent Document Name of Patents of Assignment of Pages, Columns, Lines,											
Examiner Initials*	Cite No.1	Office	Number ⁴	Kind Code ^b (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-OD-YYYY	Where Relevant Passages or Relevant Figures Appear				
GIA	C78	wo	00/21689		Chou et al.	4/20/2000		Τ			
1	C79	JP	02-92603		Kunkawa et al.	4/3/1990		\vdash			
	C80	JP	02-24848		Kamio	1/26/1990					
	C81	wo	01/47003		Steiner et al.	6/28/2001					
	C82	wo	02/07199		Chou	1/24/2002					
	C83	wo	2004/114016		Chou et al.	12/29/2004					
	C84	wo	99/05724		Chou et al.	2/4/1999					
	C85	wo	03/010289		Chou et al.	2/6/2003					
	C86	wo	03/079416		Chou	9/25/2003					
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Substitute fo	r form 1449A/P	ТО		Comple	Complete if Known		
INFO	RMATION	DISCLO	SURE	APPLICATION NUMBER	10/616,294		
STATEMENT BY APPLICANT				FILING DATE	07/09/2003		
				FIRST NAMED INVENTOR	Choi et al.		
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Sheet	7	of	8	Examiner Name	Nguyen, Thukhanh T.		
			!	Attorney Docket Number	P92-34-03		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			

6	\mathcal{M}	C88	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000
	1	C89	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997
		C90	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003
		C91	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000
		C92	White et al., Novel Alignment System for Imprint Lithography, J. Vac. Sci. Technol. B 18(6), pp. 3552 - 3556, 11/1/2000
		C93	Translation of Japanese Patent 02-92603
		C94	Translation of Japanese Patent 02-24848
		C95	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002
0		C98	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technology B 14(16), pp. 4129-4133, 11/1/1996

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Examiner Signature	//h	Date Considered	9/1/05

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PTO/58/08A (08-03) Approved for use through 7/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO				Complete if Known		
INFO	RMATION	DISCLO	SURE	APPLICATION NUMBER	10/616,294	
(use as many sheets as necessary)				FILING DATE	07/09/2003	
				FIRST NAMED INVENTOR	Choi et al.	
				Group Art Unit	1722	
Sheet	8	of	8	Examiner Name	Nguyen, Thukhanh T.	
	1		- 1	Attorney Docket Number	P92-34-03	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	

6	MR	C97	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
		C98	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	
		C99	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
		C100	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
		C101	Wronosky et al., Wafer and Reticle Positioning System for the Extreme Ultraviolet Lithography Engineering Test Stand, Emerging Lithography Technologies, Proceedings of SPIE Vol. 3997, pp. 829-839, 7/1/2000	
		C102	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	
0		C103	Martin et al., Predication of Fabrication Distortions in Step and Flash Imprint Lithography Templates, Journal of Vacuum Science Technology B 20(6), pp. 2891-2895, 11/1/2002	

Examiner Signature	Date Considered	9/1/05
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¹ Applicant's unique citation designation number (optional).
² Applicant is to place a check mark here if English language Translation is attached.

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